Welcome and BSA Vision & Role at BNL

DOE-NP annual S&T Review of RHIC

July 24-26, 2006

S. Aronson

(Interim Director & BSA President)

Office of Nuclear Physics
Exploring Nuclear Matter - Quarks to Stars

BROOKHAVEN NATIONAL LABORATORY
Brookhaven Science Associates

Brookhaven Science Associates

- Brookhaven Science Associates (BSA) was established 8 years ago
- BSA's sole purpose is managing and operating Brookhaven National Laboratory
- A 50-50 partnership between Battelle Memorial Institute and The Research Foundation of the State University of New York on behalf of SUNY-Stony Brook

BSA Board of Directors

- **BSA is governed by a 16-member Board of Directors**
  - Five appointed by the Research Foundation
  - Five by Battelle
  - One each from six of the nation's premier research universities: Columbia, Cornell, Harvard, MIT, Princeton, Yale
- Chairperson is either the President of SUNY-SB or the CEO of Battelle
  - 2-year alternating terms (chair ⇆ vice chair)
  - Current chair is Shirley Strum Kenny, SUNY-SB
- **The Board is responsible for:**
  - Setting overall Laboratory policy and direction
  - Conducting an annual review of overall contract performance
  - Conducting independent corporate self assessments
  - Providing advice and assistance to the Laboratory Director on significant scientific, technical, or management issues

BSA Board Members

- Research Foundation
  - Dr. Shirley Strum Kenny (c)
  - Dr. Robert McGrath
  - Dr. James Simons
  - Evelyn Berezin
  - Richard Gelfond
- Battelle
  - Dr. Carl F. Kohrt (vc)
  - Dennis McGinn
  - I. Martin Inglis
  - Dr. William J. Madia
  - Donald McConnell
- Universities
  - Columbia: Prof. David Hirsh
  - Cornell: Prof. Robert C. Richardson
  - Harvard: Prof. John Huchra
  - MIT: Prof. Robert Redwine
  - Princeton: Prof. A.J. Stewart Smith
  - Yale: Prof. Paul A. Fleury

Science & Technology Steering Committee

- Assists the Board in it policy/direction-setting function
  - S&TSC serves at the pleasure of the Board.
  - Consists of two members selected by each Board Institution (16 members), and up to four additional members nominated by the BNL Director
    - Assure broad and diverse programmatic coverage
  - Members of the S&TSC serve for 3-year staggered terms, which can be renewed as appropriate
  - Chair and Deputy Chair elected for 3-year terms
  - Meets 3 times/year, set by the Deputy Director for S&T together with the S&TSC chair
    - Next meeting this coming Thursday-Friday!

Science & Technology Steering Committee

- S&TSC Reporting
  - To the BSA Board (S&TSC chair is a non-voting member of the Board)
  - Its findings to the BNL Director and Deputy Director for S&T

- Responsibilities
  - Advises the BSA Board on searches for Director and Deputy Director for S&T
  - Provides scientific advice, guidance to the Director and Deputy Director for S&T
  - Oversees the self-assessment of S&T programs and provides QA
  - Is provided with overviews of research proposals, projects, progress, and provides formal comments to the Director and cognizant ALDs
  - Commissions independent visiting committees and peer reviews on a regular basis, and can establish ad hoc study panels in cooperation with the Deputy Director for S&T
  - Conducts reviews of tenure cases and makes recommendations to the Board
  - Is advised of termination of employment of tenured scientists and makes a recommendation to the Board

S&TSC Membership

- Dr. Charles Baltay (Physics, Yale)
- Dr. Barbara A. Baird (Chemistry, Cornell)
- Dr. Karen Berman (Neuroimaging , NIMH)
- Dr. David J. Galas (Lab Ops, Battelle)
- Dr. Wayne A. Hendrickson (Biochem./ Molecular Biophysics, Columbia)
- Dr. John Huth (Physics, Harvard)
- Dr. Barbara Jacak (Physics, Stony Brook)
- Dr. Robert Jaffe (chair) (Physics, MIT)
- Dr. Robert Liebermann (Earth Sciences, Stony Brook)
- Dr. David Litster (Physics, MIT)
- Dr. Peter B. Moore (Chemistry, Yale)
- Dr. David Rubin (Physics, Cornell)
- Dr. Frans Spaepen (Eng. & Appl. Sci., Harvard)
- Dr. Gerald Stokes (Lab Ops, Battelle)
- Dr. Ali Yazdani (Physics, Princeton)
- Prof. William Zajc (Physics, Columbia)

- New members (Director's nominees) being selected now

BSA's Vision for BNL and NP

- Major Lab Initiatives
  - World leadership with evolution of RHIC into a broad-based QCD laboratory – RHIC → RHIC II + eRHIC
  - US leadership in nanoscience with construction and operation of CFN
  - US leadership with construction and operation of 4th generation medium energy light source – NSLS II
- Additional initiatives
  - Translational biomedical imaging
  - Computational science
  - Energy-related R&D
  - Long baseline neutrino oscillations, dark energy

Thoughts on this review

- The RHIC program is a story of continuing (and hopefully not discounted!) outstanding performance – both research and operations
- I think the most important subject of this review is the *future* of the RHIC program:
  - The Mid-term strategic plan
  - The EBIS construction project
  - The R&D and near-term construction → RHIC II
    - E-cooling, detectors
  - Nuclear theory and computational QCD
    - QCDOC, BlueGene/L
  - Related factors: ops costs, LHC, etc.
  - Feeds into the upcoming Long Range Plan exercise